

Title (en)  
YARN THREADING ROBOT

Title (de)  
FADENEINFÄDELUNGSROBOTER

Title (fr)  
ROBOT D'ENFILAGE DE FIL

Publication  
**EP 3838824 B1 20230927 (EN)**

Application  
**EP 21155450 A 20171012**

Priority  
• JP 2016206091 A 20161020  
• EP 17196158 A 20171012

Abstract (en)  
[origin: EP3312121A1] There is provided a yarn threading robot capable of stably performing yarn threading. A yarn threading robot 3 is configured to perform yarn threading onto a spun yarn take-up apparatus 2 while sucking and retaining a yarn Y by a sucking retaining unit 42. The spun yarn take-up apparatus 2 is configured to wind the spun-out yarn Y onto a bobbin B while traversing the yarn Y, to form a package. The yarn threading robot 3 includes a controller configured to control the suction force of the sucking retaining unit 42.

IPC 8 full level  
**B65H 57/00** (2006.01); **B65H 54/88** (2006.01); **B65H 67/048** (2006.01); **D01D 5/34** (2006.01); **D01D 7/00** (2006.01); **D01F 8/14** (2006.01)

CPC (source: CN EP)  
**B65H 54/88** (2013.01 - EP); **B65H 57/003** (2013.01 - EP); **B65H 67/048** (2013.01 - EP); **D01D 5/34** (2013.01 - EP); **D01D 7/00** (2013.01 - CN EP); **D01F 8/14** (2013.01 - EP); **B65H 27/01/3132** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3312121 A1 20180425**; CN 107964691 A 20180427; CN 107964691 B 20220211; CN 113753680 A 20211207; CN 113753680 B 20230801; CN 113753681 A 20211207; CN 113753681 B 20230314; CN 113862804 A 20211231; CN 113862804 B 20230526; EP 3659953 A1 20200603; EP 3659953 B1 20210630; EP 3663246 A1 20200610; EP 3663246 B1 20240828; EP 3838824 A1 20210623; EP 3838824 B1 20230927; JP 2018066088 A 20180426; JP 6829044 B2 20210210; TW 201815651 A 20180501; TW I694964 B 20200601

DOCDB simple family (application)  
**EP 17196158 A 20171012**; CN 201710790470 A 20170905; CN 202111159028 A 20170905; CN 202111160658 A 20170905; CN 202111160660 A 20170905; EP 20152839 A 20171012; EP 20152840 A 20171012; EP 21155450 A 20171012; JP 2016206091 A 20161020; TW 106134497 A 20171006